

## Sensor/actuator box - SACB-4/ 8- 5,0PUR SH - 1695786

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Sensor/actuator box, Connection method: M12 socket Metal, Number of slots: 4, Number of positions: 5, Slot assignment: Double, Status indication: No, Universal; Master cable connection: Fixed connection 180°, PUR/ PVC, Cable length: 5 m, Shielding: Yes

The illustration shows a version with 8 slots

### Product Features

- ✓ Safety in the field, thanks to molded housing and high degree of protection
- ✓ Flexible, distributed bundling of signals in one master cable
- ✓ Save space: distributor box with double occupancy for two sensors in one slot
- ✓ Reliable signal transmission – 360° shielding in environments with electromagnetic interference



### Key commercial data

|                                      |            |
|--------------------------------------|------------|
| Packing unit                         | 1 PCE      |
| Weight per Piece (excluding packing) | 1038.6 GRM |
| Custom tariff number                 | 85444290   |
| Country of origin                    | Poland     |

### Technical data

#### General

|                                          |            |
|------------------------------------------|------------|
| Rated voltage                            | 48 V       |
|                                          | 60 V DC    |
| Current carrying capacity per I/O signal | 2 A        |
| Current carrying capacity per slot       | 4 A        |
| Total rated current                      | 12 A       |
| Number of positions                      | 5          |
| Number of slots                          | 4          |
| Inflammability class according to UL 94  | V0         |
| Sensor/actuator connection system        | M12 socket |

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### Technical data

#### Ambient conditions

|                                 |                                             |
|---------------------------------|---------------------------------------------|
| Degree of protection            | IP65                                        |
|                                 | IP67                                        |
| Ambient temperature (operation) | -25 °C ... 70 °C                            |
|                                 | -40 °C ... 90 °C (for fixed installation)   |
|                                 | -5 °C ... 80 °C (for flexible installation) |

#### Master cable connection data

|                                              |                  |
|----------------------------------------------|------------------|
| Connection method                            | Fixed connection |
| Length of cable                              | 5 m              |
| Tightening torque slot sensor/actuator cable | 0.4 Nm           |

#### Insulation material

|                                                |               |
|------------------------------------------------|---------------|
| Housing material                               | Aluminum      |
| Housing surface material                       | Nickel-plated |
| Material of the moulding mass                  | PUR           |
| Contact material                               | Cu alloy      |
| Contact surface material                       | Gold-plated   |
| Contact carrier material                       | PA            |
| Material of contact, master cable side         | CU alloy      |
| Material of contact surface, master cable side | Gold-plated   |
| Material of threaded sleeve                    | Aluminum      |
| Material, O-ring                               | NBR           |

#### Pin assignment

|                                          |                       |
|------------------------------------------|-----------------------|
| Slot/position = Wire color or connection | 1 / 4 (A) = WH        |
|                                          | 1 / 2 (B) = GY/PK     |
|                                          | 2 / 4 (A) = GN        |
|                                          | 2 / 2 (B) = RD/BU     |
|                                          | 3 / 4 (A) = YE        |
|                                          | 3 / 2 (B) = WH/GN     |
|                                          | 4 / 4 (A) = GY        |
|                                          | 4 / 2 (B) = BN/GN     |
|                                          | 1-4 / 1 (+ 48 V) = BN |
|                                          | 1-4 / 3 (0 V) = BU    |
|                                          | 1-4 / 5 (PE) = GN/YE  |

#### Cable

|                           |                         |
|---------------------------|-------------------------|
| Cable type                | PUR/PVC shielded, black |
| Cable type (abbreviation) | PUR                     |

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### Technical data

#### Cable

|                                     |                                                                     |
|-------------------------------------|---------------------------------------------------------------------|
| Cable abbreviation                  | LiYY11Y-HF                                                          |
| Conductor cross section             | 8x 0.5 mm <sup>2</sup> (signal line)                                |
|                                     | 3x 1 mm <sup>2</sup> (Power supply)                                 |
| AWG signal line                     | 20                                                                  |
| AWG power supply                    | 17                                                                  |
| Conductor structure signal line     | 64x 0.10 mm                                                         |
| Conductor structure, voltage supply | 128x 0.10 mm                                                        |
| Overall twist                       | Wires twisted in layers                                             |
| Shielding                           | Tinned copper braided shield                                        |
| External sheath, color              | deep black RAL 9005                                                 |
| External cable diameter D           | 9.4 mm ± 0.2 mm                                                     |
| Number of bending cycles            | 1500000                                                             |
| Bending radius                      | 94 mm                                                               |
| Traversing path                     | 2 m                                                                 |
| Traversing rate                     | 2 m/s                                                               |
| Outer sheath, material              | PUR                                                                 |
| Material conductor insulation       | PVC                                                                 |
| Conductor material                  | Bare Cu litz wires                                                  |
| Nominal voltage, cable              | 300 V                                                               |
| Test voltage, cable                 | 2000 V                                                              |
| Special properties                  | Silicone-free                                                       |
|                                     | Free of substances which would hinder coating with paint or varnish |
| Flame resistance                    | DIN EN 50265                                                        |
| Resistance to oil                   | As per VDE 0472 Part 803                                            |
| Other resistance                    | Highly resistant to acids, alkaline solutions and solvents          |
| Ambient temperature (operation)     | -40 °C ... 90 °C (cable, fixed installation)                        |
|                                     | -5 °C ... 80 °C (cable, flexible installation)                      |

### Classifications

#### eCl@ss

|            |          |
|------------|----------|
| eCl@ss 4.0 | 27140815 |
| eCl@ss 4.1 | 27140815 |
| eCl@ss 5.0 | 27143423 |
| eCl@ss 5.1 | 27143423 |
| eCl@ss 6.0 | 27143423 |
| eCl@ss 7.0 | 27449001 |

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### Classifications

eCl@ss

|            |          |
|------------|----------|
| eCl@ss 8.0 | 27449001 |
|------------|----------|

### ETIM

|          |          |
|----------|----------|
| ETIM 2.0 | EC000200 |
| ETIM 3.0 | EC001856 |
| ETIM 4.0 | EC002585 |
| ETIM 5.0 | EC002585 |

### UNSPSC

|               |          |
|---------------|----------|
| UNSPSC 6.01   | 31261501 |
| UNSPSC 7.0901 | 31261501 |
| UNSPSC 11     | 31261501 |
| UNSPSC 12.01  | 31261501 |
| UNSPSC 13.2   | 31261501 |

### Approvals

#### Approvals

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Approvals

GOST / GOST

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Ex Approvals

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Approvals submitted

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#### Approval details

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| GOST  |
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## Sensor/actuator box - SACB-4/ 8- 5,0PUR SH - 1695786

### Accessories

#### Accessories

#### Device marking

Zack marker strip - ZBN 18:UNBEDRUCKT - 2809128



Zack marker strip, Strip, white, Unlabeled, Can be labeled with: Plotter, Mounting type: Snap into tall marker groove, For terminal block width: 18 mm, Lettering field: 18 x 5 mm

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### Protective cap

Screw plug - PROT-M12 SH - 1503302



An M12 screw plug for the unoccupied M12 sockets of the shielded sensor/actuator cable, boxes and flush-type connectors

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### Screwdriver tools

Tool - SAC BIT M12-D15 - 1208432



Nut for assembling sensor/actuator cables with M12 connector and for M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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Tool - SACC BIT M12-D20 - 1208445



Nut for assembling SACC M12 connectors for free assembly, excluding M12 connectors with QUICKON fast connection technology, for 4 mm hexagonal drive

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### Torque tool

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## Accessories

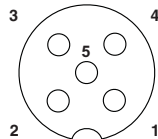
Torque screwdriver - TSD 04 SAC - 1208429



Torque screwdriver, with preset torque of 0.4 Nm and 4 mm hexagonal drive for M12 connectors

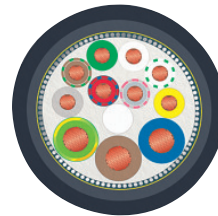
## Drawings

Schematic diagram



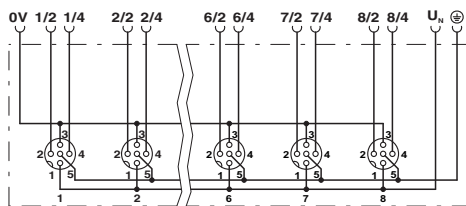
M12 slot, socket, 5-pos.

Cable cross section



PUR/PVC shielded, black [PUR]

Circuit diagram



Dimensioned drawing

